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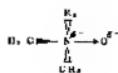
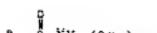
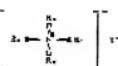
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(54) ANTIBACTERIAL AGENT CONTAINING QUATERNARY AMMONIUM SALT

(57)Abstract:

PURPOSE: To obtain an antibacterial agent highly potent in germicidal/sterilizing activity, also presenting its efficacy in a short time, and long in efficacy sustaining time.

CONSTITUTION: This antibacterial agent contains several kinds of compound of formula I [R1 is a 6-18C alkyl or benzyl; R2 is H, a 1-18C alkyl, a 8-18C alkenyl or $\text{R}_2 = (\text{CH}_2)_2, \text{CH}_3, \text{O}, \text{S}, \text{P}(\text{OH})_2$, an aralkyl; R3 is a 12-22C alkyl; R4 is a 8-18C alkyl or of formula II (R5 is a 2-22C alkyl; (n) is 2 or 3); Y is an anion composed of one or three halogen atom(s)] and satisfies one or both of the following conditions: (A) the number of the molecules of the compound (where, R3 is a 16C alkyl) accounts for $\geq 80\%$ of the total number of the molecules of the compound; and (B) the anions composed of three halogen atoms accounts for $\geq 50\%$ of the total anions. This antibacterial agent is additionally incorporated with at least one kind among phosphoric esters of formula III



II

III

IV

V

VI

(x and y total 3; R6 is a 3-20C organic group; (p) is 1 or 2), polyethanolamines of formula IV (z is 2-10; R7 is a 2-22C alkyl) and ammonium oxides of formula V (R8 is a 4-18C alkyl).

LEGAL STATUS

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